

**Notice of Allowability**

Application No.

10/534,068

Examiner

Jerry Martin Blevins

Applicant(s)

BOHNERT ET AL.

Art Unit

2883

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed December 3, 2007.
2. ☒ The allowed claim(s) is/are 1,3,5-7,9-11 and 14-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
BRIAN HEALY  
PRIMARY PATENT EXAMINER

## **DETAILED ACTION**

### ***Response to Arguments***

Applicant's arguments, see pages 6-9, filed December 3, 2007, with respect to claims 1, 3, 5-7, 9-11, and 14-18 have been fully considered and are persuasive. The rejection of claims 1, 3, 5-7, 9-11, and 14-18 has been withdrawn.

### ***Allowable Subject Matter***

Claims 1, 3, 5-7, 9-11, and 14-18 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art, as best exemplified by US 4,802,731 to Maschek et al., teaches a high-voltage component (10) comprising a first end (9) and a second end (5) wherein under operating conditions the first end is on a high-voltage potential with respect to the second end (abstract), comprising an insulating part (6) which is arranged between the first end and the second end, and comprising at least one optical fiber (11) which is integrated in the high-voltage component and which extends from the first end to the second end, wherein the high-voltage component comprises at least one capillary (7, column 3, lines 30-44) which extends from the first end to the second end and which is arranged within the insulating part (Figure 1), wherein the inside diameter of the capillary exceeds the outside diameter of the fiber (Figure 2), wherein the fiber is arranged within the capillary (Figure 2), and wherein the capillary comprises a protective medium (19, column 4, lines 10-21) to achieve a dielectric strength within the capillary,

which dielectric strength is suitable for the operating conditions (column 1, lines 29-36).

Maschek does not teach that the outside of the capillary is enclosed by a capillary coating in order to protect the capillary against mechanical stress. US 6,140,810 to Bohnert et al. teaches a capillary enclosed by a capillary coating in order to protect the capillary against mechanical stress (column 5, lines 25-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the capillary of Maschek with the capillary coating of Bohnert. The motivation would have been to protect the capillary against mechanical stress (Bohnert, column 5, lines 25-45).

Maschek also does not teach that the high-voltage component comprises a current sensor and/or a voltage/sensor. Bohnert teaches a high-voltage component which comprises a current sensor and/or a voltage sensor (element 1). It would have been obvious to one of ordinary skill in the art at the time of the invention to include the sensor of Bohnert in the high-voltage component of Maschek. The motivation would have been to accurately gauge the current and/or voltage of the component so as to prevent damage. However, Maschek also does not teach that the capillary is designed and arranged in the insulating part such that thermo-mechanical stress, which the insulating part exerts on the capillary during the curing process of the insulation part leaves it undamaged. Further, Maschek, alone or in combination with the prior art, fails to disclose or render obvious a capillary designed and arranged in an insulating part such that thermo-mechanical stress, which the insulating part exerts on the capillary during the curing process of the insulation part, leaves it undamaged.

Claims 3, 5-7, 9, 10, and 18 are allowed due to their dependence from allowed base claim 1.

Regarding claim 11, the prior art, as best exemplified by Maschek, teaches a method for producing a high-voltage component (10) comprising a first end (9) and a second end (5) wherein under operating conditions the first end is on a high-voltage potential with respect to the second end (abstract), and comprising an insulating part (6) which is arranged between the first end and the second end, wherein between the first end and the second end within the insulating part at least one capillary is arranged to accommodate at least one optical fiber (11) (column 3, lines 30-44), and wherein a protective medium (19) is placed in the capillary to achieve a dielectric strength in the capillary, which dielectric strength is suitable for the operating conditions (column 1, lines 29-36). Maschek also teaches that the fiber is placed in the capillary (column 3, lines 30-44). Maschek does not teach that a capillary coating is selected such that it is applied to the outside of the capillary before the capillary is arranged within the insulating part. US 6,203,647 to Schuler et al. teaches a production method for a high-voltage component comprising a capillary coating applied to the outside of the capillary before the capillary is arranged within an insulating part (column 2, lines 31-39). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the production method of Maschek with the teachings of Schuler. The motivation would have been to allow for the proper placement and alignment of the above components. However, Maschek also does not teach that the capillary coating is selected such that, when it is cast in the material of the insulating part, it has good

wetting characteristics. Further, Maschek, alone or in combination with the prior art, fails to disclose or render obvious a capillary coating selected such that, when it is cast in the material of an insulating part, it has good wetting characteristics.

Claims 14-17 are allowed due to their dependence from allowed base claim 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Martin Blevins whose telephone number is 571-272-8581. The examiner can normally be reached on Monday through Friday.

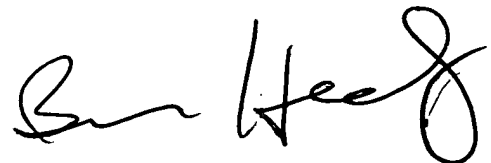
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMB

A handwritten signature in black ink, appearing to read "Brian Healy", with a stylized flourish at the end.

BRIAN HEALY  
PRIMARY PATENT EXAMINER